



Maramed Orthopedic Systems was established in 1972 by Alan R. Finnieston, CPO and Harry Shufflebarger, MD. Their goal was to market the custom fit prefabricated orthoses and fracture braces they helped research and develop with the Department of Orthopedics at the University of Miami. They strongly believed that the anatomically correct fully functional orthopedic devices, resulting from their R&D, would accommodate the vital needs of the patient and the practitioner.

Today, Maramed Orthopedic Systems is known world-wide for providing the very best in innovative cost-effective products. Unlike most prefabricated orthoses, Maramed's fracture braces enjoy the distinction of having been CLINICALLY TESTED in over 5,000 cases. The company continues to be a driving force in the development of orthoses used in trauma and in clinical and rehabilitative applications.

This catalog consists of our standard line plus several new products such as our Fluffi-Splints™ and S-Series™ line. For added convenience, we have also included a page demonstrating how to properly measure to determine sizing. Should there be a need for a product not displayed within the catalog, we will gladly furnish it upon request. Maramed is also happy to provide custom and OEM products.

We would like to take this opportunity to thank all of our customers for helping Maramed to prosper for the past 35+ years. We look forward to providing our new customers with the same level of dedication.

Terms of Sale

Orders:

Shipped COD until an account is established.

Terms:

Net 30 Days

Payment by credit card:

MasterCard, Visa, American Express, Discover

Payment by invoice:

Statements are mailed monthly.

Accounts Past Due:

30 days after delivery. Delinquent accounts will be assessed 1 1/2 % per month, 18% annual.

Shipment:

FOB Hialeah, Florida, USA. Maramed offers same day shipment on most orders regardless of quantity. All orders will be shipped via standard United Parcel Service, unless otherwise specified.

Prices and Terms of Sales:

Subject to change without notice.

Returns:

All returns require a "Return Authorization Number". Place number on return shipping label. Merchandise returned without prior authorization will not be accepted. All returns are subject to a 20% restocking charge.

Customer Service Hours

Monday through Friday
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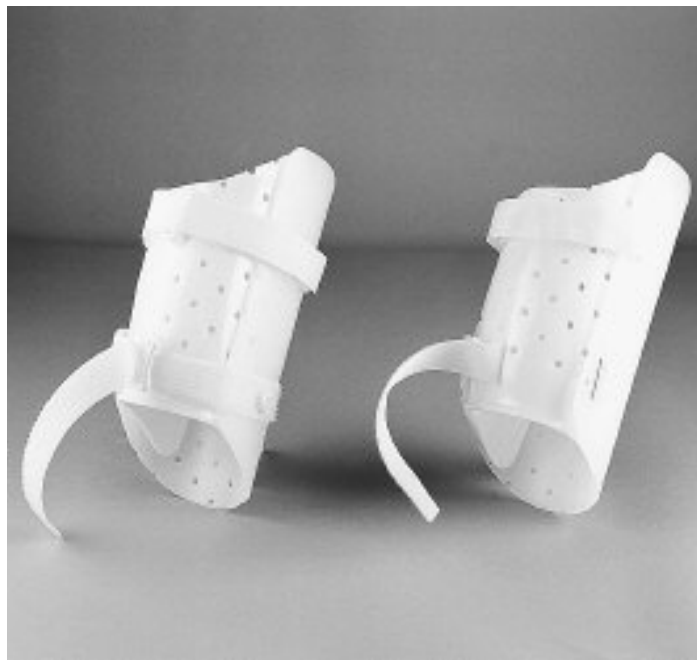
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THE S-SERIES™

In response to the needs and preferences of today's healthcare professional, Maramed is proud to introduce the new S-Series™ line of prefabricated orthoses. It consists of the same superior materials and anatomical designs as our original style and includes several distinct new features.

- Same clinically tested anatomical shapes
- More patient compliant
- Lower profile - no external parts to catch on clothes
- By replacing the loop, chafe and rivet with a simple static slot, slippage and rotation of the anterior/posterior components are minimized.
- Longer straps with end stops insure proper brace alignment while donning and doffing.
- All straps are made of Magic Tape™, a revolutionary strap-ping material that consists of self-engaging hook and loop.
- Straps are easily replaced without any tools.
- Removable straps promote proper hygiene.



All S-Series™ prefabricated orthoses include one presewn double layer cotton stockinette and are available in the following configurations:

Wrist Hand Series

Wrist Hand Orthosis - WH-S

Wrist Hand Thumb Orthosis - WHT-S

Functional Positioning Orthosis - WHTF-S

Humerus Series

Humerus Fracture Brace - HFB-S

Shoulder Guard Humerus Fracture Brace - HFB-SG-S

Tibia Series

Tibia Fracture Brace - TFB-S

Other Series

Ulna Fracture Brace - UFB-S

Additional stockinette and straps are available separately.



Sports Thumb Spica

THUMB SPICA SERIES

The Thumb Spica series includes the Sports Thumb Spica and the Thumb Guard Spica. These orthoses comfortably restrict the motion of the basilar joint and maintain the thumb in a neutral position. Both embody an anatomically correct design that contours the orthosis to the palmar area of the hand. This allows full range of motion of the fingers for both styles, and full range of motion of the wrist for the Thumb Guard Spica. The Sports Thumb Spica, conversely, limits abduction of the wrist. The spicas are made of a hypoallergenic linear polyethylene plastic and are easily customized utilizing a heat gun and scissors, as shown in the modification procedures (page 43). Each is provided with one presewn double layer cotton stockinette. Additional stockinette and straps are available separately.



SPORTS THUMB SPICA

Provides rigid immobilization of the thumb and/or wrist.
Suggested L-Code: L3923

Indications

Sprains, fractures and strains
Postoperative rehabilitation
Collateral ligament injuries
Skier's thumb & Gamekeeper's thumb
DeQuervain's Syndrome
Arthritis pain in thumb and saddle joints
Prophylactic bracing and immobilization

Item Number	Size Left/Right	M-P Diameter†
STS-100	Small	2 ³ / ₄ - 3 ¹ / ₄
STS-200	Medium	3 ¹ / ₄ - 3 ³ / ₄
STS-300	Large	3 ³ / ₄ - 4

† M-P Diameter is width of hand

Additional Items

Item Number	Description
STRAP-STS/M	Elastic strap
STOCKINETT-TGS2	Stockinette-one size

Indications

Sprains, fractures and strains
Skier's thumb & Gamekeeper's thumb
Postoperative rehabilitation

Item Number	Size Left/Right	M-P Diameter†
TGS-100	Small	2 ³ / ₄ - 3 ¹ / ₄
TGS-200	Medium	3 ¹ / ₄ - 3 ³ / ₄
TGS-300	Large	3 ³ / ₄ - 4

† M-P Diameter is width of hand

Additional Items

Item Number	Description
STRAP-TGS/M	Magic Tape™ strap
STOCKINETT-TGS2	Stockinette-one size



THUMB GUARD SPICA

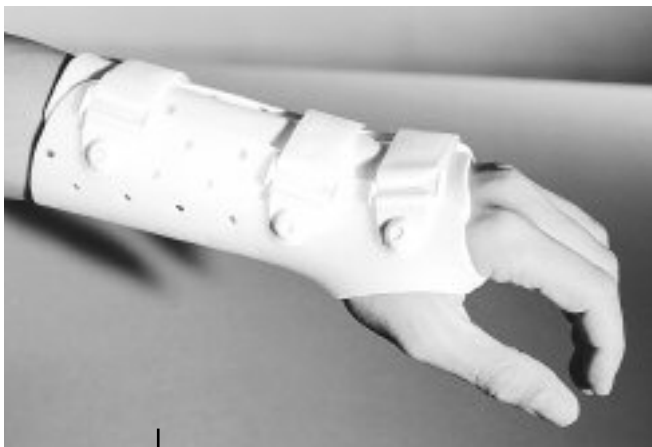
Provides rigid immobilization of the thumb.
Suggested L-Code: L3923



Wrist Hand Extended

WRIST HAND SERIES

All orthoses in the Wrist Hand series are comprised of a foam lined hypoallergenic linear polyethylene plastic with a padded dorsal tongue that enables them to provide both rigid cast like protection and maximum comfort to the patient. They provide a significant advantage over casting, as they are highly adjustable, allowing them to properly compensate for edema. The brace composition is completely radiolucent. In addition to the traditional style, which incorporates hook and loop straps with the quick lock fastener system, all of the Wrist Hand orthoses, except for the Arthroscopic Traction Assist, are available in the streamlined, slotted S-Series™ version. They are easily customized utilizing a heat gun and scissors, as shown in the modification procedures (page 43). Each is provided with one presewn double layer cotton stockinette. Additional stockinette and straps are available separately.



WRIST HAND

Provides proper support and immobilization of the wrist.
Allows unobstructed motion of the thumb and fingers†.
Suggested L-Code: L3914, L3938, L3984

Indications

Post cast fracture immobilization
Wrist fractures and sprains
Cumulative Trauma Disorder
Carpal Tunnel Syndrome
Post tendon transfer support
Postoperative support after removal of internal or external fixation devices

Item Number	Size Left/Right	M-P Diameter†	Circumference		Length of Brace
			Wrist	Forearm	
WH-100	Small	2 ³ / ₄ - 3 ¹ / ₄	6 - 7	8 - 10	7 ¹ / ₂
WH-200	Medium	3 ¹ / ₄ - 3 ³ / ₄	7 - 8	10 -12	7 ¹ / ₂
WH-300	Large	3 ³ / ₄ - 4	8 - 9	12 -14	8
WHE-100	Small	2 ³ / ₄ - 3 ¹ / ₄	6 - 7	8 - 10	11
WHE-200	Medium	3 ¹ / ₄ - 3 ³ / ₄	7 - 8	10 -12	11
WHE-300	Large	3 ³ / ₄ - 4"	8 - 9	12 -14	13

† M-P Diameter is width of hand

†A 4" proximal extended orthosis WHE is available for added protection. Shown on page 5.

Additional Items

Item Number	Description
STRAP-10	Hook & Loop strap
STOCKINETT-WH	Stockinette-one size

WRIST HAND S-SERIES™



Indications

Post cast fracture immobilization
Wrist fractures and sprains
Cumulative Trauma Disorder
Carpal Tunnel Syndrome
Post tendon transfer support
Postoperative support after removal of internal or external fixation devices

Item Number	Size Left/Right	M-P Diameter†	Circumference		Length of Brace
			Wrist	Forearm	
WH-100-S	Small	2 ³ / ₄ - 3 ¹ / ₄	6 - 7	8 - 10	7 ¹ / ₂
WH-200-S	Medium	3 ¹ / ₄ - 3 ³ / ₄	7 - 8	10 -12	7 ¹ / ₂
WH-300-S	Large	3 ³ / ₄ - 4	8 - 9	12 -14	8

† M-P Diameter is width of hand

Additional Items

Item Number	Description
STRAP-MG-10	Magic Tape™ strap
STOCKINETT-WH	Stockinette-one size

Indications

Post cast fracture immobilization
Wrist fractures and sprains
Cumulative Trauma Disorder
Carpal Tunnel Syndrome
Post tendon transfer support
Postoperative support after removal of internal or external fixation devices
Gamekeeper's thumb
DeQuervain's Syndrome

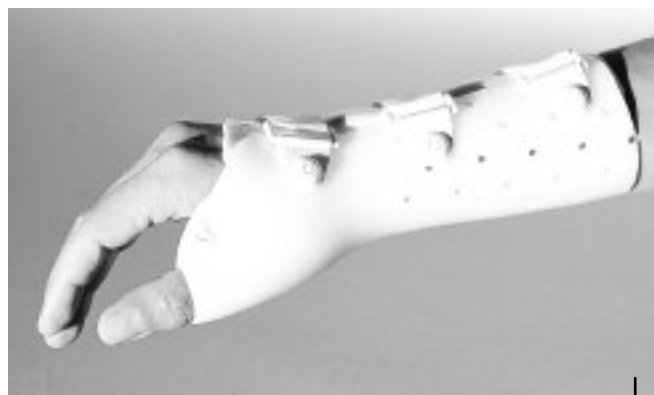
Item Number	Size Left/Right	M-P Diameter†	Circumference		Length of Brace
			Wrist	Forearm	
WHT-100	Small	2 ³ / ₄ - 3 ¹ / ₄	6 - 7	8 - 10	7 ¹ / ₂
WHT-200	Medium	3 ¹ / ₄ - 3 ³ / ₄	7 - 8	10 -12	7 ¹ / ₂
WHT-300	Large	3 ³ / ₄ - 4	8 - 9	12 -14	8
WHTE-100	Small	2 ³ / ₄ - 3 ¹ / ₄	6 - 7	8 - 10	11
WHTE-200	Medium	3 ¹ / ₄ - 3 ³ / ₄	7 - 8	10 -12	11
WHTE-300	Large	3 ³ / ₄ - 4	8 - 9	12 -14	13

† M-P Diameter is width of hand

‡ A 4" proximal extended orthosis WHTE is available for added protection.

Additional Items

Item Number	Description
STRAP-10	Hook & Loop strap
STOCKINETT-WHT	Stockinette-one size



WRIST HAND THUMB

Provides proper support and immobilization of the wrist and thumb. Allows unobstructed motion of the fingers‡.

Suggested L-Code: L3807, L3984



WRIST HAND THUMB S-SERIES™

Item Number	Size Left/Right	M-P Diameter†	Circumference		Length of Brace
			Wrist	Forearm	
WHT-100-S	Small	2 ³ / ₄ - 3 ¹ / ₄	6 - 7	8 - 10	7 ¹ / ₂
WHT-200-S	Medium	3 ¹ / ₄ - 3 ³ / ₄	7 - 8	10 -12	7 ¹ / ₂
WHT-300-S	Large	3 ³ / ₄ - 4	8 - 9	12 -14	8

† M-P Diameter is width of hand

Indications

Post cast fracture immobilization
Wrist fractures and sprains
Cumulative Trauma Disorder
Carpal Tunnel Syndrome
Post tendon transfer support
Postoperative support after removal of internal or external fixation devices
Gamekeeper's thumb
DeQuervain's Syndrome

Additional Items

Item Number	Description
STRAP-10/S	Magic Tape™ strap
STOCKINETT-WHT	Stockinette-one size



FUNCTIONAL POSITIONING ORTHOSIS

Provides proper support to the wrist and thumb while allowing the fingers to rest comfortably on the extended padded platform.

Suggested L-Code: L3807

Indications

Functional positioning splint
Post cast fracture immobilization
Post tendon transfer support
Post cva



FUNCTIONAL POSITIONING S-SERIES™

Item Number	Size Left/Right	M-P Diameter†	Circumference		Finger Extension
			Wrist	Forearm	
WHTF-100	Small	2 ³ / ₄ - 3 ¹ / ₄	6 - 7	8 - 10	5
WHTF-200	Medium	3 ¹ / ₄ - 3 ³ / ₄	7 - 8	10 - 12	5 ¹ / ₂
WHTF-300	Large	3 ³ / ₄ - 4	8 - 9	12 - 14	6 ¹ / ₄
S-Series					
WHTF-100-S	Small	2 ³ / ₄ - 3 ¹ / ₄	6 - 7	8 - 10	5
WHTF-200-S	Medium	3 ¹ / ₄ - 3 ³ / ₄	7 - 8	10 - 12	5 ¹ / ₂
WHTF-300-S	Large	3 ³ / ₄ - 4	8 - 9	12 - 14	6 ¹ / ₄

† M-P Diameter is width of hand

Additional Items

Item Number	Description
STRAP-10	Hook & Loop strap
STRAP-MG-10	Magic Tape™ strap
STOCKINETT-WHT	Stockinette-one size



ARTHROSCOPIC TRACTION ASSIST

Provides proper positioning of the shoulder during arthroscopic surgery.
Eliminates pressure sores caused by traction.
Suggested L-Code: L3807

Indications

Assistive suspension device for upper extremity fracture reduction
(in conjunction with traction equipment)
Shoulder positioning for arthroscopic surgery (in conjunction with traction equipment)

Item Number	Size Left/Right	M-P Diameter†	Circumference		Finger Extension
			Wrist	Forearm	
WHH-100	Small	2 ³ / ₄ - 3 ¹ / ₄	6 - 7	8 - 10	5
WHH-200	Medium	3 ¹ / ₄ - 3 ³ / ₄	7 - 8	10 - 12	5 ¹ / ₂
WHH-300	Large	3 ³ / ₄ - 4	8 - 9	12 - 14	6 ¹ / ₄

† M-P Diameter is width of hand

Additional Items

Item Number	Description
STRAP-10	Hook & Loop strap
STOCKINETT-WH	Stockinette-one size
TONGUE -I/M	Replacement Foam Pad





Carpal Tunnel Splint

UPPER EXTREMITY SPLINTS

All styles of the upper extremity orthoses are available in a variety of configurations, depending upon the patient's needs and the practitioner's preferences. They provide effective immobilization and are completely radiolucent, allowing unobstructed radiographs. The Fluffi-Splints™ are available with plastic inserts. They are easily customized, as shown in the modification procedures (page 43).

WRIST HAND COLLES' SPLINT

Provides effective temporary positioning and immobilization of the wrist in an ulnar deviated position. Rigid polystyrene construction permits unobstructed radiographs and allows splint to be gas autoclaved.

Suggested L-Code: L3908

Indications

Temporary positioning and/or immobilization of wrist and hand fractures or ligament injuries.

Post cast immobilization

Item Number	Size Left/Right	M-P Diameter†	Length of Brace
WHCS-100	Small	2 - 2 ¹ / ₂	5 ¹ / ₄
WHCS-200	Medium	2 ³ / ₄ - 3 ¹ / ₄	7 ¹ / ₂
WHCS-300	Large	3 ¹ / ₄ - 3 ³ / ₄	9
WHCS-400	X-Large	3 ³ / ₄ - 4	10

† M-P Diameter is width of hand



WRIST HAND FOREARM SPLINT

Provides effective temporary positioning and immobilization of the wrist in the neutral position. Rigid polystyrene construction permits unobstructed radiographs and allows splint to be gas autoclaved.

Suggested L-Code: L3908

Indications

Temporary positioning and/or immobilization of wrist and hand fractures or ligament injuries.

Post cast immobilization

Item Number	Size Left/Right	M-P Diameter†	Length of Brace
WHFS-100	Small	2 ³ / ₄ - 3 ¹ / ₄	7 ¹ / ₂
WHFS-200	Medium	3 ¹ / ₄ - 3 ³ / ₄	10
WHFS-300	Large	3 ³ / ₄ - 4	10 ¹ / ₂

† M-P Diameter is width of hand

Indications

Temporary positioning and/or immobilization of
wrist and hand fractures or ligament injuries
Post cast immobilization

Fluffi-Splint™

Item Number	Size Left/Right	M-P Diameter†	Length of Brace
WHFS-C-100	Small	2 ³ / ₄ - 3 ¹ / ₄	7 ¹ / ₂
WHFS-C-200	Medium	3 ¹ / ₄ - 3 ³ / ₄	10
WHFS-C-300	Large	3 ³ / ₄ - 4	10 ¹ / ₂

† M-P Diameter is width of hand

Additional Fluffi-Cover™

(complete with 3 straps - one 1¹/₂" & two 2")

Item Number	Size Left/Right
COV-WHFS-1	Small
COV-WHFS-2	Medium
COV-WHFS-3	Large

Additional Fluffi-Straps™

Item Number	Description
STRAP-C-1.5	1 ¹ / ₂ "
STRAP-C-2	2"



WRIST HAND FOREARM FLUFFI-SPLINT™

Provides effective temporary positioning and immobilization of wrist in a neutral position with the added comfort and safety of the soft cover and straps. Both the cover and straps wick away moisture and are washable to promote proper hygiene. The splint is excellent for rehabilitation and long-term care. Rigid polystyrene construction permits unobstructed radiographs and allows splint to be gas autoclaved.

Suggested L-Code: L3982 or L3984

Indications

Temporary positioning and/or immobilization of
wrist and hand fractures or ligament injuries
Post cast immobilization

Fluffi-Splint™

Item Number	Size Left/Right	M-P Diameter†	Length of Brace
WHCS-C-100	Small	2 - 2 ¹ / ₂	5 ¹ / ₄
WHCS-C-200	Medium	2 ³ / ₄ - 3 ¹ / ₄	7 ¹ / ₂
WHCS-C-300	Large	3 ¹ / ₄ - 3 ³ / ₄	9
WHCS-C-400	X-Large	3 ³ / ₄ - 4	10

† M-P Diameter is width of hand

Additional Fluffi-Cover™

(complete with 3 straps - one 1¹/₂" & two 2")

Item Number	Size Left/Right
COV-WHCS-1	Small
COV-WHCS-2	Medium
COV-WHCS-3	Large
COV-WHCS-4	X-Large

Additional Fluffi-Straps™

Item Number	Description
STRAP-C-1.5	1 ¹ / ₂ "
STRAP-C-2	2"



WRIST HAND COLLES' FLUFFI-SPLINT™

Provides effective temporary positioning and immobilization of wrist in an ulnar deviated position with the added comfort and safety of the soft cover and straps. Both the cover and straps wick away moisture and are washable to promote proper hygiene. The splint is excellent for rehabilitation and long-term care. Rigid polystyrene construction permits unobstructed radiographs and allows splint to be gas autoclaved.

Suggested L-Code: L3982 or L3984



CARPAL TUNNEL SPLINT

Unique dorsal design permits unrestricted functional use of the hand while eliminating pressure on the carpal tunnel. Soft adjustable elastic palmer straps offer either static positioning of the wrist or two levels of resistant wrist flexion. Consists of a high density polyethylene plastic which is foam lined for added comfort.

Suggested L-Code: L3908



Indications

Carpal Tunnel Syndrome
Repetitive Stress Injury
Cumulative Trauma Disorder
Rehabilitation post tendon transfers
Ulnar and radial nerve palsy

Item Number	Size Left/Right	M-P Diameter†	Length of Brace
CUS-100	Small	2 ⁵ / ₄ - 3 ¹ / ₄	7
CUS-200	Medium	3 ¹ / ₄ - 3 ⁵ / ₄	7 ¹ / ₂
CUS-300	Large	3 ³ / ₄ - 4	7 ¹ / ₂

† M-P Diameter is width of hand

Additional Straps

Item Number	Description
STRAP-CUS-2	1" Stretch
STRAP-CUS-3	1" Hook & Loop
STRAP-CUS-4	2" Stretch

Indications

Carpal Tunnel Syndrome
Repetitive Stress Injury
Cumulative Trauma Disorder
Rehabilitation post tendon transfers
Ulnar and radial nerve palsy

Fluffi-Splint™

Item Number	Size Left/Right	M-P Diameter†	Length of Brace
CUS-C-100	Small	2 ⁵ / ₄ - 3 ¹ / ₄	7
CUS-C-200	Medium	3 ¹ / ₄ - 3 ⁵ / ₄	7 ¹ / ₂
CUS-C-300	Large	3 ³ / ₄ - 4	7 ¹ / ₂

† M-P Diameter is width of hand

Additional Fluffi-Cover™

(complete with 3 straps - one 1¹/₂" & two 2")

Item Number	Size Left/Right
COV-CUS-1	Small
COV-CUS-2	Medium
COV-CUS-3	Large

Additional Fluffi-Straps™

Item Number	Description
STRAP-C-1.5	1 ¹ / ₂ "
STRAP-C-2	2"



CARPAL TUNNEL FLUFFI-SPLINT™

Provides the same features as the standard carpal tunnel splint with ultra cushioning.

Suggested L-Code: L3908



Shoulder-Elbow-Wrist-Hand Orthosis

ELBOW SERIES

The elbow orthoses are effective in limiting the range of motion involved with flexion and extension. Both the Shoulder-Elbow-Wrist-Hand orthosis and the Elbow orthosis feature: an upper component - consisting of a Humerus fracture brace, an elbow hinge and a lower component - consisting of a Forearm-Wrist-Hand immobilizer. The lower component helps to eliminate distal slippage. The elbow hinge is a limited motion aluminum medial upright that is adjustable in 30° increment stops. This joint is slotted to allow adjustments proximal and distal to the elbow. These orthoses are easily customized utilizing a heat gun and scissors, as shown in the modification procedures (page 43). Each is provided with one pre sewn double layer cotton stockinette. Additional stockinette and straps are available separately.



ELBOW ORTHOSIS

Clinically designed for anatomical alignment of the humerus-forearm-wrist-hand with an articulating elbow joint. Allows unrestricted shoulder motion.

Suggested L-Code: L3995, L3760, L3890 and L3956

Indications (both elbow orthoses)

Distal humeral fractures
 Immobilization after surgery
 Unconscious movement during sleep
 Olecranon and Epicondyl Fractures
 Ligament injuries in the elbow joint
 Instabilities or hyperextension
 Injuries requiring limited range of motion at the elbow
 Elbow Arthroplasty
 Postoperative conditions
 Postoperative cast

Item Number	Size Left/Right	Circumference		
		Wrist	Forearm	Biceps
EO-100	Small	6 - 7	8 - 10	8 - 11
EO-200	Medium	7 - 8	10 - 12	10 - 13
EO-300	Large	8 - 9	12 - 14	12 - 15
EO-400	X-Large	8 - 9	12 - 14	14 - 17

Additional Items

Item Number	Description
STRAP-10	Forearm-Wrist-Hand Hook & Loop strap
STOCKINETT-WH	Forearm-Wrist-Hand Stockinette-one size
8010	Elbow Joint-11"
ROUND-PAD-1/4	Foam Elbow Pad-1/4"
STRAP-17	Humerus Hook & Loop strap-Sm
STOCKINETT-H3	Humerus Stockinette-Sm
STRAP-19	Humerus Hook & Loop strap-Md/Lg/XLg
STOCKINETT-H4	Humerus Stockinette-Md/Lg/XLg



SHOULDER ELBOW WRIST HAND ORTHOSIS

Anatomical alignment of the shoulder-humerus-forearm-wrist-hand with an articulating elbow joint. Allows limited functional shoulder motion with shoulder protection.

Suggested L-Code: L3760, L3890 and L3956

Item Number	Size Left/Right	Circumference		
		Wrist	Forearm	Biceps
EO-SG-100	Small	6 - 7	8 - 10	8 - 12 ¹ / ₄
EO-SG-200	Medium	7 - 8	10 - 12	11 - 14 ¹ / ₂
EO-SG-300	Large	8 - 9	12 - 14	12 - 16 ¹ / ₂
EO-SG-400	X-Large	8 - 9	12 - 14	14 - 17 ¹ / ₂

Additional Items

Item Number	Description
STRAP-10	Forearm-Wrist-Hand Hook & Loop strap
STOCKINETT-WH	Forearm-Wrist-Hand Stockinette-one size
8010	Elbow Joint-11"
Round-Pad-1/4	Foam Elbow Pad-1/4"
STRAP-17	Shoulder Guard Hook & Loop strap-Sm
STOCKINETT-SG3	Shoulder Guard Stockinette-Sm
STRAP-19	Shoulder Guard Hook & Loop strap-Md/Lg/XLg
STOCKINETT-SG4	Shoulder Guard Stockinette-Md/Lg/XLg
STRAP-MG-63-1	Shoulder strap-one size



Humerus Fracture Brace

UPPER EXTREMITY FRACTURE BRACES

All Maramed fracture braces have been developed and tested in over 5,000 clinical cases in conjunction with the University of Miami, Department of Orthopedics and Rehabilitation[†]. The information gained from these studies was a key resource in the design of Maramed's fracture brace line. The design is comprised of overlapping anterior and posterior shells that allow for ease of adjustment, accommodate for volumetric changes of soft tissue associated with fracture healing and eliminate the need for serial casting. Anatomical and biomedical considerations insure that soft tissue compression is maintained as volumetric adjustments are compensated for while maintaining proper suspension of the brace over the fracture area. Flared edges are incorporated in the anterior and posterior shells providing superior patient comfort throughout full range of motion. Maximum patient comfort is also provided through the use of a specially formulated low density polyethylene plastic with 1/8" foam lining that pads the anterior shell. Excellent off-the-shelf fit has been achieved through many years of clinical development. However, in such cases where customization is indicated, braces can be quickly and easily modified utilizing a heat gun and scissors, as shown in the modification procedures (page 43). Each is provided with one presewn double layer cotton stockinette. Additional stockinette and straps are available separately.

[†] Reprints of our clinical studies are available upon request.

Item Number	Size Neutral	Circumference	Overall Length	
			Medial	Lateral
HFB-OS-100	Small	8 - 12 $\frac{1}{2}$	6	11
HFB-OS-200	Medium	10 - 13 $\frac{1}{4}$	6 $\frac{1}{2}$	12 $\frac{1}{2}$
HFB-OS-300	Large	12 - 15	7	13 $\frac{1}{2}$
HFB-OS-400	X-Large	14 - 16	7 $\frac{1}{4}$	14

Additional Items

Item Number	Description
STRAP-MG-63-1	Shoulder strap-one size
STRAP-MG-30†	Biceps & Distal strap-one size
VEL-Wrap-6†	Double sided loop wrap
VEL-Wrap-3	Double sided loop wrap
STOCKINETT-SG3	Stockinette-Sm
STOCKINETT-SG4	Stockinette-Md/Lg/XLg

† STRAP-MG-63-1 requires VEL-WRAP-6

Indications (both Humerus Fracture Braces)

Nonoperative treatment of closed humeral shaft fractures
 Postoperative treatment of open humeral shaft fractures
 Protection of humeral defects
 After removal of internal or external fixation
 Post biopsy
 Defects resulting from tumor growth
 Adjunct to internal fixation such as unreamed intermedullary nails



OVER THE SHOULDER-NEUTRAL HFB

Clinically designed for treating humeral fractures while providing limited shoulder motion. Fitting instructions detailing HFB fitting and hygiene are included with each HFB to help insure patient compliance.
 Suggested L-Code: L3980

OVER THE SHOULDER-NEUTRAL HFB EXTENDED VERSION

Item Number	Size Neutral	Circumference	Overall Length	
			Medial	Lateral
HFB-OS-000X	X-Small	7 - 9	4 $\frac{1}{2}$	10 $\frac{1}{2}$
HFB-OS-100X	Small	11 - 14	5 $\frac{3}{4}$	12 $\frac{3}{4}$
HFB-OS-200X	Medium	13 - 16	6 $\frac{1}{4}$	14
HFB-OS-300X	Large	15 $\frac{1}{2}$ - 17 $\frac{1}{2}$	7	16 $\frac{1}{4}$
HFB-OS-400X	X-Large	17 - 20	8	17 $\frac{3}{4}$

Additional Items

Item Number	Description
STRAP-OS-1/M	Shoulder strap 63"
STRAP-OS-2/M	Double Sided Loop strap
STRAP-OS-3/M	Double sided Hook strap
VEL-WRAP-3	Velcro wrap 3"
VEL-WRAP-6	Velcro wrap 6"
STOCKINETT-SG3	Stockinette-Sm
STOCKINETT-SG4	Stockinette-Md/Lg/XLg

† STRAP-MG-63-1 requires VEL-WRAP-6



HUMERUS FRACTURE BRACE™†

Clinically designed for treating humeral fractures. Fitting instructions detailing HFB fitting and hygiene are included with each HFB to help insure patient compliance.

Suggested L-Code: L3980

† See page 16 for photo of standard Humerus Fracture Brace

Item Number	Size Left/Right	Circumference	Overall Length	
			Medial	Lateral
HFB-100	Small	8 - 11	5 ¹ / ₄	6 ¹ / ₄
HFB-200	Medium	10 - 13	5 ¹ / ₂	6 ³ / ₄
HFB-300	Large	12 - 15	6	7 ¹ / ₄
HFB-400	X-Large	14 - 17	6 ¹ / ₄	7 ³ / ₄
HFB-500	XX-Large	18 - 23	7 ¹ / ₄	8 ³ / ₄

S-Series

HFB-100-S	Small	8 - 11	5 ¹ / ₄	6 ¹ / ₄
HFB-200-S	Medium	10 - 13	5 ¹ / ₂	6 ³ / ₄
HFB-300-S	Large	12 - 15	6	7 ¹ / ₄
HFB-400-S	X-Large	14 - 17	6 ¹ / ₄	7 ³ / ₄

Additional Items

Item Number	Description
STRAP-17	Hook & Loop strap-Sm
STRAP-MG-17	Magic Tape™ strap-Sm
STRAP-19	Hook & Loop strap-Md/Lg/XLg
STRAP-MG-19	Magic Tape™ strap-Md/Lg/XLg
STOCKINETT-H3	Stockinette-Sm
STOCKINETT-H4	Stockinette-Md/Lg/XLg



NEUTRAL HUMERUS FRACTURE BRACE

Overlapping volar and dorsal shells allow for ease of adjustment, accommodating for volumetric changes in soft tissue associated with fracture healing. Eliminates the need for serial casting. A Neutral design to fit left and right, thus requiring less inventory. Fitting instructions detailing HFB-N fitting and hygiene are included with each HFB-N to help insure patient compliance.

Suggested L-Code: L3980

Item Number	Size Neutral	Circumference		Length
		Distal	Proximal	
HFB-N-100	Small	7 - 9	9 - 11	7 ¹ / ₂
HFB-N-200	Medium	9 - 11	11 - 13	8
HFB-N-300	Large	11 - 13	13 - 15	8
HFB-N-400	X-Large	13 - 15	15 - 17	11

Additional Items

Item Number	Description
STRAP-14-EH	Hook & Loop strap (Sm/Md/Lg)
STRAP-22-EH	Hook & Loop strap (XLg)
STOCKINETT-H3	Stockinette-Sm
STOCKINETT-H4	Stockinette-Md/Lg/XLg

Indications (both Humerus Fracture Braces)

Nonoperative treatment of closed humeral shaft fractures
 Postoperative treatment of open humeral shaft fractures
 Protection of humeral defects
 After removal of internal or external fixation
 Post biopsy
 Defects resulting from tumor growth
 Adjunct to internal fixation such as unreamed intermedullary nails

Item Number	Size Left/Right	Circumference	Overall Length	
			Medial	Lateral
HFB-SG-100	Small	8 - 12 ¹ / ₄	6 ¹ / ₄	10 ¹ / ₄
HFB-SG-200	Medium	11 - 14 ¹ / ₂	7	12
HFB-SG-300	Large	12 - 16 ¹ / ₂	7 ¹ / ₄	12 ¹ / ₂
HFB-SG-400	X-Large	12 - 17 ¹ / ₂	8	13 ¹ / ₂

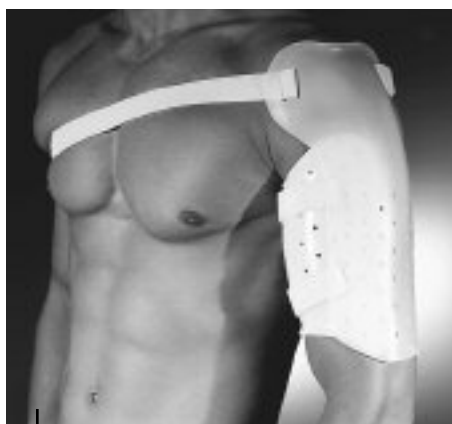
Additional Items

Item Number	Description
STRAP-17	Hook & Loop strap-Sm
STRAP-19	Hook & Loop strap-Md/Lg/XLg
STRAP-MG-63-1	Over the shoulder strap
STOCKINETT-SG5	Stockinette-Sm
STOCKINETT-SG4	Stockinette-Md/Lg/XLg



OVER THE SHOULDER-SHOULDER GUARD HFB

Clinically designed for treating humeral fractures while providing limited shoulder motion. Fitting instructions detailing HFB fitting and hygiene are included with each HFB to help insure patient compliance. Suggested L-Code: L3980



OVER THE SHOULDER-SHOULDER GUARD HFB S-SERIES™

Item Number	Size Left/Right	Circumference	Overall Length	
			Medial	Lateral
HFB-SG-100-S	Small	8 - 12 ¹ / ₄	6 ¹ / ₄	10 ¹ / ₄
HFB-SG-200-S	Medium	11 - 14 ¹ / ₂	7	12
HFB-SG-300-S	Large	12 - 16 ¹ / ₂	7 ¹ / ₄	12 ¹ / ₂
HFB-SG-400-S	X-Large	12 - 17 ¹ / ₂	8	13 ¹ / ₂

Additional Items

Item Number	Description
STRAP-MG-17	Magic Tape™ strap-Sm
STRAP-MG-19	Magic Tape™ strap-Md/Lg/XLg
STRAP-MG-63	Over the shoulder strap
STOCKINETT-SG5	Stockinette-Sm
STOCKINETT-SG4	Stockinette-Md/Lg/XLg

Item Number	Size Left/Right	Circumference	Length
UFB-100	Small	8 - 10	7
UFB-200	Medium	10 - 12	8
UFB-300	Large	12 - 14	9

S-Series

UFB-100-S	Small	8 - 10	7
UFB-200-S	Medium	10 - 12	8
UFB-300-S	Large	12 - 14	9

Item Number	Size Neutral	Circumference Distal	Proximal	Length
UFB-N-100	Small	6½ - 7½	7½ - 9	6½
UFB-N-200	Medium	7½ - 8½	9 - 11	7
UFB-N-300	Large	8½ - 9½	11 - 13	8

Additional Items

Item Number	Description
STRAP-10 & STRAP-14	Hook & Loop straps-Sm
STRAP-10 & STRAP-17	Hook & Loop straps-Md
STRAP-14 & STRAP-17	Hook & Loop straps-Lg
STRAP-MG10 & STRAP-MG14	Magic Tape™ straps-Sm
STRAP-MG10 & STRAP-MG17	Magic Tape™ straps-Md
STRAP-MG14 & STRAP-MG17	Magic Tape™ straps-Lg
STRAP-14-EH (for UFB-N only)	Magic Tape™ straps-Lg
STOCKINETT-U3	Stockinette-one size

Indications (Ulna & Neutral Ulna Fracture Braces)

Treatment of mid shaft and distal ulnar fractures
Post external fixation for healing of soft tissue
Adjunct to internal fixation such as unreamed intramedullary nails



ULNA FRACTURE BRACE

Overlapping volar and dorsal shells allow for ease of adjustment, accommodating for volumetric changes of soft tissue associated with fracture healing. Eliminates the need for serial casting. Incorporation of an interosseous groove helps to separate the radius and ulna aiding stabilization. Flared edges are incorporated at the distal end of the brace providing superior comfort throughout active range of motion. Design allows for early return to function. Fitting instructions detailing UFB fitting and hygiene are included with each UFB to help insure patient compliance.

Suggested L-Code: L3982

Indications (Colles' Fracture Brace)

Treatment of fractures of the distal radius after maintenance reduction.

Item Number	Size Left/Right	Wrist	Forearm
CFB-100	Small	6 - 7	8 - 10
CFB-200	Medium	7 - 8	10 - 12
CFB-300	Large	8 - 9	12 - 14

Additional Items

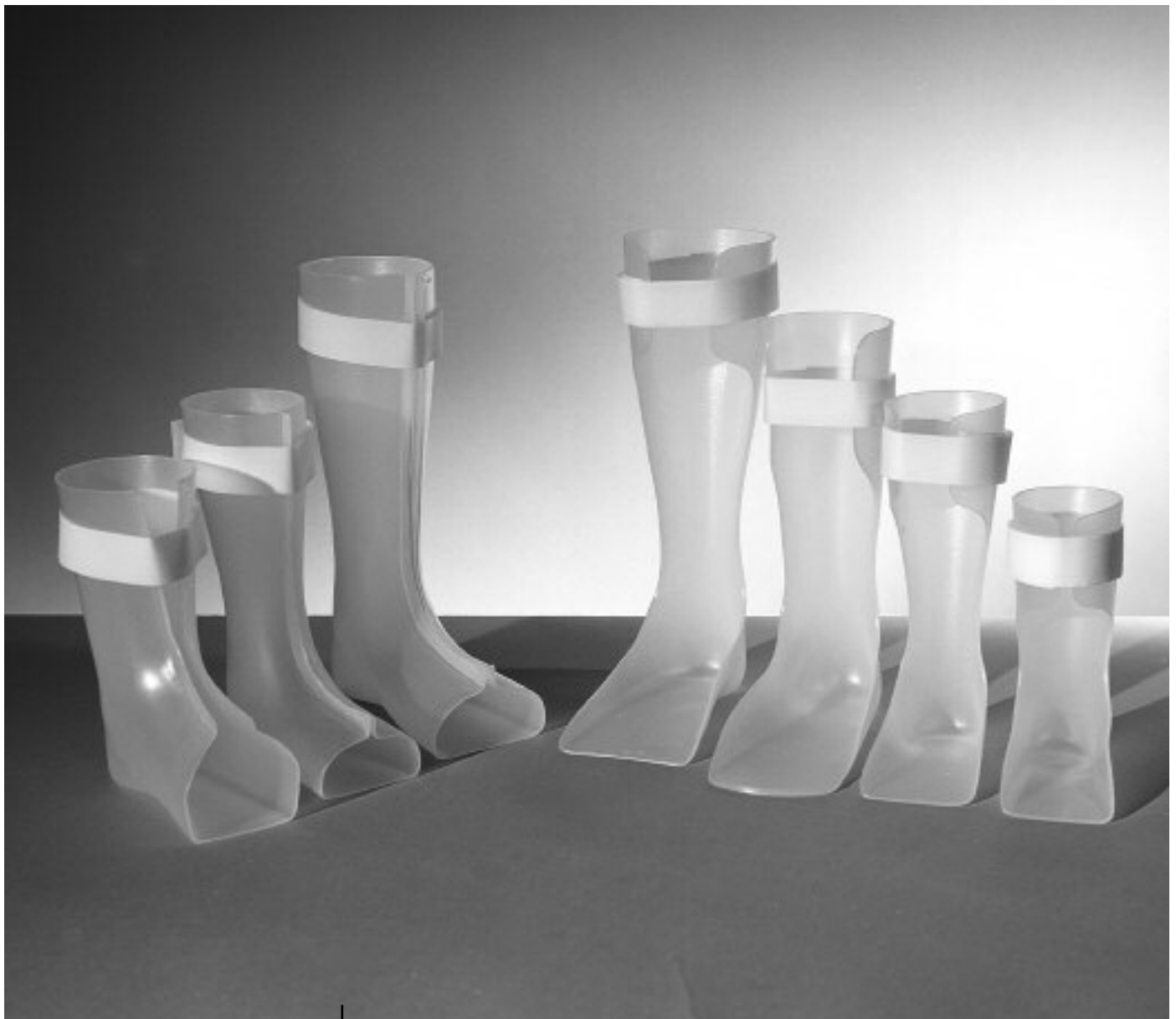
Item Number	Description
STRAP-10 & STRAP-14	Hook & Loop straps-Sm
STRAP-10 & STRAP-17	Hook & Loop straps-Md
STRAP-14 & STRAP-17	Hook & Loop straps-Lg
STOCKINETT-C3	Stockinette-one size



COLLES' FRACTURE BRACE

Two part design controls wrist position, while permitting partial range of motion for the wrist, elbow and fingers. Highly adjustable, allowing for volumetric changes in soft tissue associated with fracture healing. Eliminates the need for serial casting. Anatomical and biomedical design considerations place the hand in a supinated position with ulnar deviation. Soft tissue compression and proper suspension of the brace over the fracture area is maintained, as volumetric adjustments are accommodated. An interosseous groove is incorporated into the brace to aid in fitting and controlling relative rotation of the ulna and radius. Fitting instructions detailing CFB fitting and hygiene are included with each CFB to help insure patient compliance.

Suggested L-Code: L3982



ANKLE FOOT ORTHOSES/DROP FOOT SPLINTS

The ankle foot orthoses/drop foot splints provide a full foot section for additional support and comfort when indicated and are fabricated in a predorsiflexed position to provide superior dorsiflexion assist. The amount of dorsiflexion assist is proportional to shoe size. The anatomical design compensates for atrophy and avoids calcaneus irritation. The splints are made of a specially formulated polypropylene plastic insuring effective product longevity and are guaranteed for life. They are easily customized, utilizing a heat gun and scissors, as shown in the modification procedures (page 43). Additional straps are available separately.



PEDIATRIC AFO-BLANK

Allows custom fitting and trimming.

Suggested L-Code: L1930

Item Number†	Size Left/Right	Foot
UCB-100	1	4
UCB-200	2	4 ¹ / ₄
UCB-300	3	4 ¹ / ₂
UCB-400	4	4 ³ / ₄
UCB-500	5	5
UCB-600	6	5 ¹ / ₄
UCB-700	7	5 ¹ / ₂
UCB-800	8	5 ³ / ₄
UCB-900	9	6

† For foam lined UCB add -F (ex: UCB-100-F).

PEDIATRIC UCB

Suggested L-Code: L1930



AFO SOCKS

Item Number	Size
AFO-L-1	Pediatric-one size Pair



Item Number	Size Left/Right	Calf	Height	Foot	Thickness
PED-000	XX-Small	7 - 9	5 ³ / ₄	4 ¹ / ₂	1 ¹ / ₈
PED-100	X-Small	8 - 10	7 ¹ / ₂	4 ¹ / ₂	1 ¹ / ₈
PED-200	Small	8 - 10	8 ¹ / ₂	5	1 ¹ / ₈
PED-300	Medium	8 ¹ / ₂ - 10 ¹ / ₂	9 ¹ / ₄	5 ¹ / ₂	5 ⁵ / ₃₂
PED-400	Large	9 - 11 ¹ / ₄	10 ¹ / ₄	6	5 ⁵ / ₃₂
PED-500	X-Large	9 ¹ / ₂ - 12	11 ¹ / ₄	6 ³ / ₄	3 ⁵ / ₁₆



PEDIATRIC AFO-CALIFORNIA CUT

Precut to mid malleoli and incorporates a solid ankle. Can be worn as a night splint.

Suggested L-Code: L1930

Item Number	Size Left/Right	Calf	Height	Foot	Thickness
PED-C-100	Small	8 ¹ / ₂ - 9 ¹ / ₂	8 ³ / ₄	6 ⁵ / ₈	1 ¹ / ₈ - 5 ⁵ / ₃₂
PED-C-200	Medium	9 ¹ / ₂ - 10 ¹ / ₂	9 ¹ / ₂	7	1 ¹ / ₈ - 5 ⁵ / ₃₂
PED-C-300	Large	10 ¹ / ₂ - 11 ¹ / ₂	10 ¹ / ₂	7 ¹ / ₂	1 ¹ / ₈ , 5 ⁵ / ₃₂ , 3 ⁵ / ₁₆



Drop Foot Splint - Full Foot

Item Number	Size Left/Right	Height	Inside Length	Outside Length	Width Ball of Foot	Men's Shoe Size
PLS-FF-100	Small	13	8 $\frac{1}{2}$	9 $\frac{5}{8}$	3 $\frac{1}{4}$	3 - 6
PLS-FF-200	Medium	13 $\frac{1}{2}$	9 $\frac{3}{4}$	10 $\frac{1}{8}$	3 $\frac{1}{2}$	6 - 9
PLS-FF-300	Large	14 $\frac{1}{2}$	11	11	3 $\frac{3}{4}$	9 - 11
PLS-FF-400	X-Large	14 $\frac{1}{2}$	11 $\frac{1}{2}$	12	4	11 - 13

DROP FOOT SPLINT-FULL FOOT

Suggested L-Code: L1930



DROP FOOT SPLINT-DYNAFO

Foot section of splint ends at the head of the metatarsals.

Suggested L-Code: L1930

Drop Foot Splint - Dynafo

Item Number	Size Left/Right	Height	Inside Length	Outside Length	Width Ball of Foot	Men's Shoe Size
PLSC-100	Small	13	5 $\frac{3}{4}$	6	2 $\frac{1}{2}$	3 - 6
PLSC-200	Medium	14	6 $\frac{1}{4}$	6 $\frac{1}{2}$	2 $\frac{3}{4}$	6 - 9
PLSC-300	Large	14	7 $\frac{1}{4}$	7 $\frac{3}{8}$	3 $\frac{1}{4}$	9 - 11
PLSC-400	X-Large	15	7 $\frac{3}{4}$	7 $\frac{7}{8}$	3 $\frac{1}{2}$	11 - 13



Drop Foot Splint - Untrimmed

Item Number	Size Left/Right	Height	Inside Length	Outside Length	Width Ball of Foot	Men's Shoe Size
PLSB-100	Small	15	7	7 $\frac{1}{4}$	3	3 - 6
PLSB-200	Medium	15	7 $\frac{3}{4}$	7 $\frac{3}{4}$	3 $\frac{1}{2}$	6 - 9
PLSB-300	Large	15	7 $\frac{5}{8}$	7 $\frac{3}{4}$	3 $\frac{5}{8}$	9 - 11
PLSB-400	X-Large	16	10 $\frac{1}{8}$	10 $\frac{1}{8}$	4	11 - 13

DROP FOOT SPLINT-UNTRIMMED

Suggested L-Code: L1930



DROP FOOT SPLINT-SLIDING

Full foot splint with sliding calf section to avoid chafing.

Suggested L-Code: L1930

Drop Foot Splint - Sliding

Item Number	Size Left/Right	Height	Inside Length	Outside Length	Width Ball of Foot	Men's Shoe Size
PLS-S-100	Small	13 $\frac{1}{4}$	8 $\frac{1}{2}$	9 $\frac{5}{8}$	3 $\frac{1}{4}$	3 - 6
PLS-S-200	Medium	13 $\frac{3}{4}$	9 $\frac{3}{4}$	10 $\frac{1}{8}$	3 $\frac{1}{2}$	6 - 9
PLS-S-300	Large	14	11	11	3 $\frac{3}{4}$	9 - 11
PLS-S-400	X-Large	15 $\frac{3}{4}$	11 $\frac{1}{2}$	12	4	11 - 13



See page 40 for AFO shoe inserts, socks, & straps.

Make sure to buy shoes one size larger to accommodate the Drop Foot Splint.

OPEN HEEL POSTERIOR LEAF SPRINGS

The Open Heel Posterior Leaf Spring AFO offers the same anatomical design as Maramed's traditional PLS with an open heel cut out that allows patient to wear any shoe comfortably without heel contact. The Open Heel PLS's are fabricated from a specially formulated durable polypropylene and formed in a predorsiflexed position to provide superior dorsiflexion assist. Anatomical design compensates for atrophy and avoids calcaneus irritation. A padded strap enhances patient comfort.

Suggested L-Code: L1930

OPEN HEEL-FULL FOOT

Offers easier fit, lifts toes and does not impinge the metatarsals.

Open Heel - Full Foot

Item Number	Size Left/Right	Height	Inside Length	Outside Length	Width Ball of Foot	Men's Shoe Size
PLS-FF-100	Small	13	8 $\frac{1}{2}$	9 $\frac{5}{8}$	3 $\frac{1}{4}$	3 - 6
PLS-FF-200	Medium	13 $\frac{1}{2}$	9 $\frac{3}{4}$	10 $\frac{1}{8}$	3 $\frac{1}{2}$	6 - 9
PLS-FF-300	Large	14 $\frac{1}{2}$	11	11	3 $\frac{3}{4}$	9 - 11
PLS-FF-400	X-Large	14 $\frac{1}{2}$	11 $\frac{1}{2}$	12	4	11 - 13



OPEN HEEL-SLIDING

Has padded calf section that slides during gait to avoid chafing.



Open Heel - Sliding

Item Number	Size Left/Right	Height	Inside Length	Outside Length	Width Ball of Foot	Men's Shoe Size
PLS-SOH-100	Small	13 $\frac{1}{4}$	8 $\frac{1}{2}$	9 $\frac{5}{8}$	3 $\frac{1}{4}$	3 - 6
PLS-SOH-200	Medium	13 $\frac{3}{4}$	9 $\frac{3}{4}$	10 $\frac{1}{8}$	3 $\frac{1}{2}$	6 - 9
PLS-SOH-300	Large	14	11	11	3 $\frac{3}{4}$	9 - 11
PLS-SOH-400	X-Large	15 $\frac{3}{4}$	11 $\frac{1}{2}$	12	4	11 - 13

OPEN HEEL-DYNAFO

Offers a traditional anatomical design.

Open Heel - Dynafo

Item Number	Size Left/Right	Height	Inside Length	Outside Length	Width Ball of Foot	Men's Shoe Size
PLSC-OH-100	Small	13	5 $\frac{3}{4}$	6	2 $\frac{1}{2}$	3 - 6
PLSC-OH-200	Medium	14	6 $\frac{1}{4}$	6 $\frac{1}{2}$	2 $\frac{3}{4}$	6 - 9
PLSC-OH-300	Large	14	7 $\frac{1}{4}$	7 $\frac{3}{8}$	3 $\frac{1}{4}$	9 - 11
PLSC-OH-400	X-Large	15	7 $\frac{3}{4}$	7 $\frac{7}{8}$	3 $\frac{1}{2}$	11 - 13

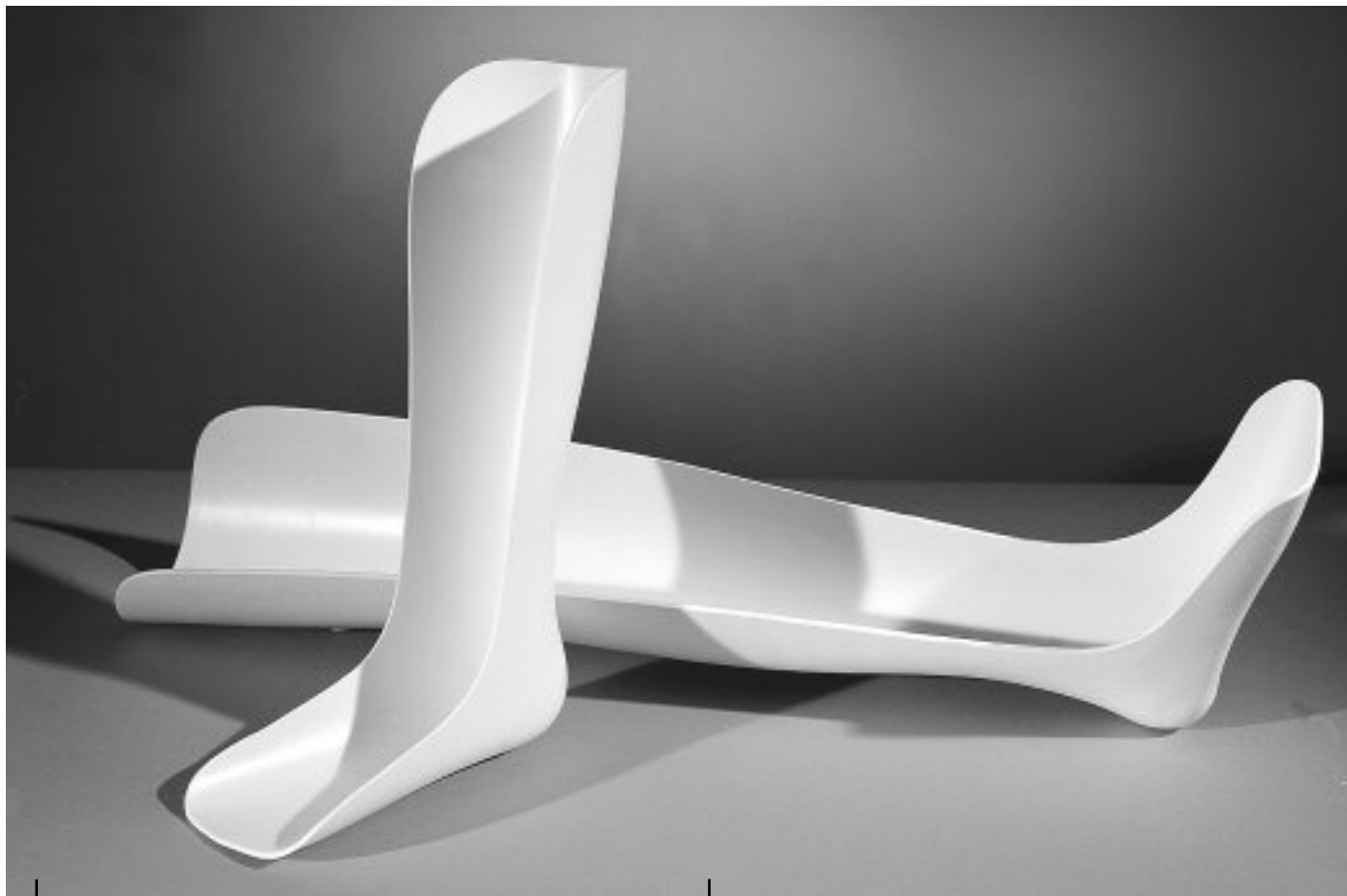




Tibia Fluffi-Splint™

LOWER EXTREMITY SPLINTS

All styles of the lower extremity splints are available in a variety of configurations, depending upon the patient's needs and the practitioner's preferences. They provide effective temporary immobilization and are completely radiolucent, allowing unobstructed radiographs. They are easily customized utilizing a heat gun and scissors, as shown in the modification procedures (page 43).



TIBIA SPLINT

Provides effective temporary positioning and immobilization of the calf and ankle. Foot is held in a slightly plantar-flexed position. Rigid polystyrene construction permits unobstructed radiographs and allows splint to be gas autoclaved.

Suggested L-Code: L2112

Indications

Temporary positioning and/or immobilization of calf and ankle fractures or ligament injuries.

Post cast immobilization

Item Number	Size Universal	Height	Calf Circumf.	Foot Length
TS-100	Small	8 $\frac{1}{2}$	11 $\frac{1}{2}$	5 $\frac{1}{2}$
TS-200	Medium	11 $\frac{1}{2}$	11 $\frac{3}{4}$	6 $\frac{3}{4}$
TS-300	Large	13 $\frac{1}{2}$	15	8 $\frac{1}{2}$
TS-400	X-Large	15	16 $\frac{1}{2}$	10 $\frac{3}{4}$

FEMUR SPLINT

Provides effective temporary positioning and immobilization of the leg extending to the proximal femur. Foot is held in a slightly plantar-flexed position. Rigid polystyrene construction permits unobstructed radiographs and allows splint to be gas autoclaved.

Suggested L-Code: L2134

Indications

Temporary positioning and/or immobilization of the leg for fractures or ligament injuries.

Post cast immobilization

Item Number	Size Universal	Height	Quad Circumf.	Foot Length
FS-100	Small	14	14	5 $\frac{3}{4}$
FS-200	Medium	19 $\frac{1}{2}$	15 $\frac{3}{4}$	7
FS-300	Large	25 $\frac{1}{2}$	18	9
FS-400	X-Large	31 $\frac{1}{2}$	21	10 $\frac{1}{2}$



TIBIA FLUFFI-SPLINT™

Provides effective temporary positioning and immobilization of the calf and ankle with the added comfort and safety of the soft liner and straps. Both the liner and straps wick away moisture and are washable to promote proper hygiene. The splint is excellent for rehabilitation and long-term care. Foot is held in a slightly plantar-flexed position. Rigid polystyrene construction permits unobstructed radiographs and allows splint to be gas autoclaved.

Suggested L-Code: L2112 L2820

Fluffi-Splint™

Item Number	Size Universal	Height	Calf Circumf.	Foot Length
TS-C-100	Small	8½	11½	5½
TS-C-200	Medium	11½	11¾	6¾
TS-C-300	Large	13½	15	8½
TS-C-400	X-Large	15	16½	10¾

Indications

Temporary positioning and/or immobilization of the leg for fractures or ligament injuries.

Post cast immobilization

Fluffi-Splint™

Item Number	Size Universal	Height	Quad Circumf.	Foot Length
FS-C-100	Small	14	14	5¾
FS-C-200	Medium	19½	15¾	7
FS-C-300	Large	25½	18	9
FS-C-400	X-Large	31½	21	10½

Additional Fluffi-Liner™

(complete with 4 straps - two 2½" & two 3½")

Item Number	Size Universal
COV-FS-1	Small
COV-FS-2	Medium
COV-FS-3	Large
COV-FS-4	X-Large

Additional Fluffi-Straps™

Item Number	Description
STRAP-C-2.5	2½"
STRAP-C-3.5	3½"

Indications

Temporary positioning and/or immobilization of calf and ankle fractures or ligament injuries.

Post cast immobilization

Additional Fluffi-Liner™

(complete with 3 straps - two 2½" & one 3½")

Item Number	Size Universal
COV-TS-1	Small
COV-TS-2	Medium
COV-TS-3	Large
COV-TS-4	X-Large

Additional Fluffi-Straps™

Item Number	Description
STRAP-C-2.5	2½"
STRAP-C-3.5	3½"



FEMUR FLUFFI-SPLINT™

Provides effective temporary positioning and immobilization of the leg extending to the proximal femur with the added comfort and safety of the soft liner and straps. Both the liner and straps wick away moisture and are washable to promote proper hygiene. The splint is excellent for rehabilitation and long-term care. Foot is held in a slightly plantar-flexed position. Rigid polystyrene construction permits unobstructed radiographs and allows splint to be gas autoclaved.

Suggested L-Code: L2112, L2820, L2830



ANTI-ROTATION BOOT

Designed to position the foot in correct anatomical alignment. Helps to correct both external and internal rotation as well as preventing hip and leg rotation. Flexion is preset at 10° to provide continuous and effective stretching of the plantar fascia and achilles tendon. A toe guard is provided to protect foot from contact with bed linens. An optional toe wedge for increased stretch and an optional scaphoid pad for arch support are available.

Suggested L-Code: L1930, L2820

Indications

- Plantar fasciitis
- Achilles tendinitis
- Plantar flexion contractures
- Heel spurs
- Equinovarus
- Pronation syndromes
- Muscle tightening
- Runners cramp
- Neurological deficits resulting in drop foot

Additional Items

Item Number	Description
TOE-PAD-1/M	Toe pad
SCAPHOID-PAD/M	Scaphoid pad
TOE-G-1/M	Toe Guard

Item Number	Size	Shoe Size	
		Women	Men
ARB-150	Small/Medium	4 - 8	6 - 7
ARB-250	Medium/Large	8+	8 - 12

Additional Fluffi-Liner™

(complete with 3 straps - one 2½", one 3" & one 4½")

Item Number	Size
SCL-ARB-1	Small/Medium
SCL-ARB-2	Medium/Large



HEEL PAIN REHAB KIT

The Heel Pain Rehab Kit is a total non-surgical approach to alleviate heel pain. It provides physicians with a complete rehab system for treating their patients. The kit comes complete with Passive Night Splint, heel cups, stretching wedge, instructional DVD and Daily Log booklet.

Suggested L-Code: L4396 (Night Splint only)

Heel Pain Rehab Kit

Item Number	Size	Shoe Size	
	Universal	Women	Men
PNS-RK-150	Small/Medium	4 - 8	6 - 7
PNS-RK-250	Medium/Large	8+	8 - 12

Additional Items	Description
ARCH-PAD-S	Hapad Arch Pad
ARCH-PAD-M	Hapad Arch Pad
FOAM-WEDGE	Foam Stretching Wedge
HC-150	Heel Cups - Small/Med
HC-250	Heel Cups - Large/X-large
STRAPS-C-2.5	2 1/2"
STRAP-C-4	4"
STRAP-C-5	5"
TOE-PAD-1/M	Toe Pad
TOE PAD, SCHAPHOID/M	Scaphoid pad
VIDEO-PNS-RK	Instructional DVD

Indications

Plantar fasciitis
 Achilles tendinitis
 Plantar flexion contractures
 Heel spurs
 Equinovarus
 Pronation syndromes
 Muscle tightening
 Runners cramp
 Neurological deficits resulting in drop foot

Passive Night Stretch Splint			
Item	Size	Shoe Size	
Number	Universal	Women	Men
PNS-150	Small/Medium	4 - 8	6 - 7
PNS-250	Medium/Large	8+	8 - 12

Additional Fluffi-Cover™

(complete with 3 straps - two 2½", one 4" & one 5")

Item	Size	Shoe Size	
Number	Universal	Women	Men
COV-PNS-1	Small/Medium	4 - 8	6 - 7
COV-PNS-2	Medium/Large	8+	8 - 12

Additional Fluffi-Straps™

Item	
Number	Description
STRAP-C-2.5	2½"
STRAP-C-4	4"
STRAP-C-5	5"

Additional Items

Item	
Number	Description
TOE-PAD-1/M	Toe pad
SCAPHOID-PAD/M	Scaphoid pad



PASSIVE NIGHT STRETCH SPLINT

Provides continuous and effective stretching of the plantar fascia and achilles tendon. Flexion is preset at 10° to provide continuous and effective stretching of the plantar fascia and achilles tendon. Fabricated with semi-rigid polypropylene plastic that allows splint to flex. An optional toe wedge for increased stretch and an optional scaphoid pad for arch support are available.

Suggested L-Code: L4396



PLANTAR FASCIITIS NIGHT STRETCH SPLINT

Provides continuous and effective stretching of the plantar fascia and achilles tendon. Flexion is preset at 10° to provide continuous and effective stretching of the plantar fascia and achilles tendon. Adjustable straps on M/L sides provide additional dorsiflexion. Fabricated with semi-rigid polypropylene plastic that allows splint to flex. An optional toe wedge for increased stretch and an optional scaphoid pad for arch support are available.

Suggested L-Code: L4396

Plantar Fasciitis Night Stretch Splint

Item	Size	Shoe Size	
Number	Universal	Women	Men
PF-150	Small/Medium	4 - 8	6 - 7
PF-250	Medium/Large	8+	8 - 12

Additional Fluffi-Liner™

(complete with 4 straps - two 2" & two 2½")

Item	Size	Shoe Size	
Number	Universal	Women	Men
COV-PF-1	Small/Medium	4 - 8	6 - 7
COV-PF-2	Medium/Large	8+	8 - 12

Additional Fluffi-Straps™

Item	
Number	Description
STRAP-C-2	2"
STRAP-C-2.5	2½"

Additional Items

Item	
Number	Description
TOE-PAD-1/M	Toe pad
SCAPHOID-PAD/M	Scaphoid pad



ANKLE FOOT CALF ORTHOSIS & CAST BOOT

Immobilizes the ankle joint while providing rigid cast like protection. Allows unobstructed radiographs. Available with a Cast Boot, which is strongly recommended to avoid premature deterioration of brace and to prevent slipping while walking. The combination with the Cast Boot provides a more comfortable and cosmetic alternative to traditional walkers. Also allows patients to continue wearing the orthosis during sleep, by simply removing the boot. Suggested L-Code: L1930 or L4396

Item Number	Size Left/Right	Height	Calf Circumference	Men's Shoe Size
AFC-100	Small	13	12 - 14	3 - 6
AFC-200	Medium	14	14 - 16	6 - 9
AFC-300	Large	16	14 - 16	9 - 11
AFC-400	X-Large	18	15 - 17	11 - 13

Cast Boot

Suggested L-Code: L3260

Item Number	Size Left/Right	Shoe Size	
		Men	Women
AFC-BOOT-100	Men's Small	6 - 8	8½ - 10
AFC-BOOT-200	Men's Medium	8½ - 10	10½ - 12
AFC-BOOT-300	Men's Large	10½ - 12	12½ - 14
AFC-BOOT-400	Men's X-Large	12½ - 14	N/A
AFC-BOOT-100/W	Women's Small	N/A	4 - 6
AFC-BOOT-200/W	Women's Medium	N/A	6½ - 8
AFC-BOOT-300/W	Women's Large	6 - 8	8½ - 10

Additional Items

Item Number	Description
STRAP-14	Hook & Loop strap-Sm/Md
STRAP-17	Hook & Loop strap-Lg/XLg
STOCKINETT-3-26	Stockinette-Sm/Md
STOCKINETT-4-26	Stockinette-Lg/XLg



Indications

Immobilization of the distal tibia and associated ankle injuries
 Temporary splint post arthroplasty
 Lateral malleoli fractures
 Post cast immobilization



Tibia Fracture Brace Proximal Support

TIBIA FRACTURE BRACES

The fracture braces in the Tibia Fracture Brace series have been developed and tested in over 5,000 clinical cases in conjunction with the University of Miami, Department of Orthopedics and Rehabilitation[†]. The information gained from these studies is a key resource in the design of Maramed's fracture brace line. The design is comprised of overlapping anterior and posterior shells that allow for ease of adjustment and accommodate for volumetric changes of soft tissue associated with fracture healing. Anatomical and biomedical considerations insure soft tissue compression is maintained as volumetric adjustments are compensated for while maintaining proper suspension of the brace over the fracture area. The design promotes early return to function. A Sarmiento Style Condylar extension is combined with the anatomical design of our standard TFB-PS to produce a superior product in both soft tissue compression and patella control. The carefully sculpted foot component insures patient comfort while providing ample medial lateral support. Maximum patient comfort is provided through the use of specially formulated low density polyethylene plastic with 1/8" foam lining that pads the anterior shell. Excellent off-the-shelf fit has been achieved through many years of clinical development. However, in such cases where customization is indicated, the TFB can be quickly and easily modified utilizing a heat gun and scissors, as shown in the modification procedures (page 43). Each is provided with one presewn double layer cotton stockinette. Additional stockinette and straps are available separately.

[†] Reprints of our clinical studies are available upon request.

Indications

Nonoperative treatment of closed tibial shaft fractures
 Postoperative treatment of open tibial shaft fractures
 Protection of tibial defects
 After removal of internal or external fixation
 Post biopsy
 Defects resulting from tumor growth
 Adjunct to internal fixation such as unreamed
 intramedullary nails

Item Number	Size Left/Right	Circumference Mid Calf	Height
TFB-100	Small	11 $\frac{1}{2}$ - 14	11
TFB-200	Medium	12 $\frac{1}{2}$ - 15 $\frac{1}{2}$	12 $\frac{1}{2}$
TFB-300	Large	13 - 16 $\frac{1}{2}$	13
TFB-400	X-Large	17 - 23 $\frac{1}{2}$	15 $\frac{5}{8}$

Additional Items

Item Number	Description
TFB-HEEL/SA	Heel Cup-one size
STRAP-17	Hook & Loop strap-Sm
STRAP-17 & STRAP-19	Hook & Loop straps-Md/Lg
STOCKINETT-T3	Stockinette-Sm
STOCKINETT-T4	Stockinette-Md/Lg



TIBIA FRACTURE BRACE

Clinically designed for treating tibial shaft fractures. Fitting instructions detailing TFB fitting and hygiene are included with each TFB to help insure patient compliance. Foot component is provided with each TFB. Optional foot components are available on page 34.
 Suggested L-Code: L2114 or L2116



TIBIA FRACTURE BRACE S-SERIES™



Item Number	Size Left/Right	Circumference Mid Calf	Height
TFB-100-S	Small	11 $\frac{1}{2}$ - 14	11
TFB-200-S	Medium	12 $\frac{1}{2}$ - 15 $\frac{1}{2}$	12 $\frac{1}{2}$
TFB-300-S	Large	13 - 16 $\frac{1}{2}$	13

Additional Items

Item Number	Description
TFB-HEEL/SA	Heel Cup-one size
STRAP-MG-17	Magic Tape™ strap-Sm
STRAP-MG-19	Magic Tape™ straps-Md/Lg
STOCKINETT-T3	Stockinette-Sm
STOCKINETT-T4	Stockinette-Md/Lg



Indications

Nonoperative treatment of closed tibial shaft fractures
 Postoperative treatment of open tibial shaft fractures
 Protection of tibial defects
 After removal of internal or external fixation
 Post biopsy
 Defects resulting from tumor growth
 Adjunct to internal fixation such as unreamed intramedullary nails

Item Number	Size Left/Right	Circumference Mid Calf	Height†
TFB-PS-100	Small	11 - 13	15
TFB-PS-200	Medium	14 - 16	16 - 17
TFB-PS-200-E	Med Long	14 - 16	18 - 19
TFB-PS-300	Large	16 - 18	17 - 18
TFB-PS-300-E	Large Long	16 - 18	19 - 21

† Height - Patella to ankle

TIBIA FRACTURE BRACE PROXIMAL SUPPORT

Clinically designed for treating tibial shaft fractures. Fitting instructions detailing TFB-PS fitting and hygiene are included with each TFB-PS to help insure patient compliance. Foot component is sold separately.

Suggested L-Code: L2114 or L2116

Additional Items

Item Number	Description
STRAP-22	Hook & Loop strap-all sizes
STOCKINETT-PTB3	Stockinette-Sm
STOCKINETT-PTB4	Stockinette-Md/Lg



FOOT COMPONENT

Suggested L-Code: L2180

Foot Component Sold Separately

Item Number	Size Left/Right	Men's Shoe Size
FC-100	Small	3 - 6
FC-200	Medium	6 - 9
FC-300	Large	9 - 11

Indications

Tibial plateau fractures
 Proximal tibial fractures
 Distal and mid shaft femoral fractures
 Adjunct to limited ORIF of interarticular fractures
 with proximal tibial fractures
 Adjunct to internal fixation such as unreamed
 intermedullary nails
 Post healing of soft tissue in external fixation



HKAFO & KAFO FEMORAL FRACTURE ORTHOSIS

Maramed's custom fabricated femoral fracture orthoses are available in various configurations to effectively match the indications of your patient. The standard thigh component insures sufficient medial/lateral soft tissue compression while maintaining proper joint alignment as the soft tissue atrophies. The tibia component allows anterior posterior compression. The hip, thigh, hip & knee joint, tibia and heel cup components of the orthosis can be selected from the different styles shown on the following page. An orthometry diagram is included to assist with obtaining the proper measurements for ordering.

Suggested L-Code: L2128

HKAFO & KAFO COMPONENTS



FOAM LINED
POLYETHYLENE
FORMED HIP SECTION

O-HIP-JNT-F



PTB STYLE TIBIA

Item Number	Calf Circumf.
TFB-PS-100	11 - 13
TFB-PS-200	14 - 16
TFB-PS-200E	14 - 16
TFB-PS-300	16 - 18
TFB-PS-300E	16 - 18



STANDARD TIBIA

Item Number	Calf Circumf.
TFB-100	11 ¹ / ₂ - 14
TFB-200	12 ¹ / ₂ - 15 ¹ / ₂
TFB-300	13 - 16 ¹ / ₂



NYLON POLYCENTRIC
FREE MOTION
KNEE JOINT

PCN-500



ALUMINUM
LAMINATED LONG LEG
DROP LOCK KNEE JOINT

3/16 X 5/8 O-KNEE-JT-AL-9
3/16 X 3/4 O-KNEE-JT-AL-8
1/4 X 3/4 O-KNEE-JT-AL-7
*available with ball spring stops
(indicate Unilateral or Bilateral)*



QUAD BRIM

Item Number	Thigh Circumference
QUAD-100	13 - 17
QUAD-200	17 - 22
QUAD-300	22 - 26
<i>†For foam lining add -FL (ex: QUAD-100-FL)</i>	



HEEL CUP

TFB-HEEL/SA
One Size



SINGLE AXIS FOOT
COMPONENT

Item Number	Men's Shoe Size
FC-100	3 - 6
FC-200	6 - 9
FC-300	9 - 11



AFO

Item Number	Men's Shoe Size
PLSFC-100	3 - 6
PLSFC-200	6 - 9
PLSFC-300	9 - 11
PLSFC-400	11 - 13



3/16" ALUMINUM
POLYCENTRIC
FRACTURE CAST KNEE
JOINT LERMAN LOCK

O-KNEE-JT-LEM-1
upper & lower components 7"



POLYCENTRIC
ALUMINUM LONG
LEG KNEE JOINT
LERMAN LOCK

O-KNEE-JT-LEM-2



HIP JOINT WITH ONE
POSITION LOCK(180°)

O-HIP-JNT-1
available with ball spring stop



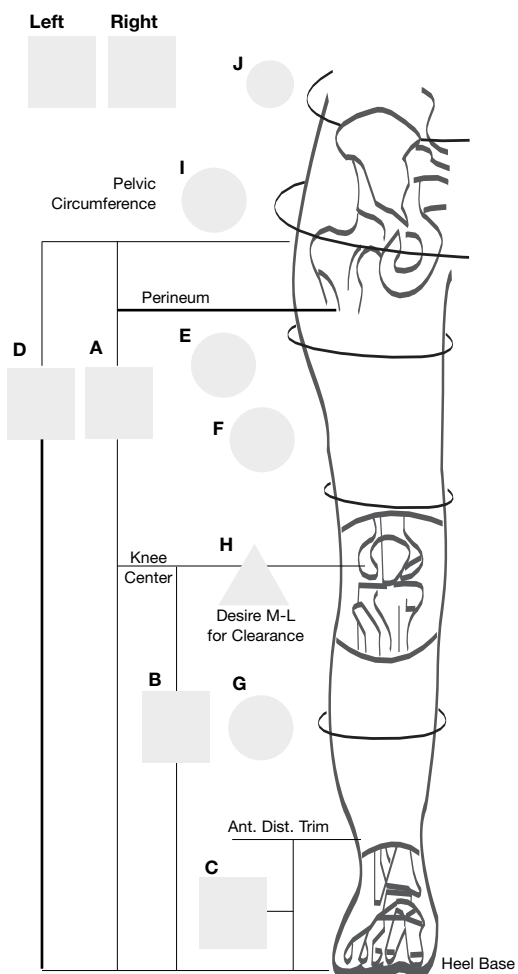
ALUMINUM
POLYCENTRIC TOTAL
HIP REPLACEMENT
JOINT

O-HIP-JNT-2
(indicate Left or Right)
provides 15°abduction

ORTHOMETRY DIAGRAM & ORDER FORM

Measurement Legend

- A. Floor to Perineum (subtract 1 1/2")
- B. Floor to knee center
- C. Floor to top of medial malleolus
- D. Floor to trochanter (for hip joint)
- E. Proximal thigh circumference - taken 1 1/2" from Perineum
- F. Distal thigh circumference - taken 2" above knee
- G. Tibia circumference
- H. Knee - medial-lateral
- I. Pelvic circumference (for hip component)
- J. Waist circumference (for hip component)



Measurement Instructions

Carefully measure your patient as indicated on the diagram. Be sure to indicate your choice of components from previous page in the column below. Call or fax your information once you have completed the form. If you have any questions or need additional measurement forms, please call our Customer Service department.

Fill in selection of components from previous page

Hip component _____

Thigh component _____

Hip joint _____

Tibia component _____

Foot component _____

Knee joint _____

Shoe size _____

Note: One set of stockinette is included

Additional Stockinette Quantity

Tibia _____

Femur _____

Company _____

Ship to address _____

Contact _____

Phone _____

Patient name _____

Height _____ Weight _____

Ship Date _____ Ship via _____

P.O.# _____

Fax: 1-305-823-8304



PREFABRICATED PROSTHESES

The Maramed line of prefabricated prostheses (PFP) is a modular adjustable trans-tibial socket system that provides immediate postoperative and early prosthetic care. The PFP is initially fit over the wound dressings and bandages. The system accepts shrinkers or soft socks, as the volume of the healing residuum fluctuates. Foam distal end pads provide initial distal contact, which prepares the patient for weight bearing and ambulation within days of the amputation. The removable socket allows the rehabilitation team to thoroughly monitor and clean the healing residuum. The socket also protects the residuum from accidental impact trauma which can greatly delay rehabilitation. When used in conjunction with the outer socket retainer, the PFP permits immediate controlled weight bearing. Complete prosthetic component packages are available for all levels of activity. The prostheses are completely radiolucent, as they are made from polypropylene and polyethylene plastic, allowing them to be modified and trimmed for a more custom fit.

X-TENDER™

Full length model is designed to prevent knee flexion contracture while maintaining knee alignment. Complete with two distal end pads and waist belt.

Suggested L-Code: L5450

Item Number	Size Left/Right	Circumference	
		MPT	Distal
PFP-100-I	Small	10 - 12	9 ¹ / ₂ - 11 ¹ / ₂
PFP-200-I	Medium	11 ¹ / ₂ - 13 ¹ / ₂	10 ³ / ₄ - 12 ³ / ₄
PFP-300-I	Large	13 ¹ / ₂ - 15 ¹ / ₂	12 ³ / ₄ - 14 ³ / ₄
PFP-400-I	X-Large	15 - 17	14 ³ / ₄ - 16 ¹ / ₄

† If stump length is greater than 7" a custom X-Tender should be ordered.



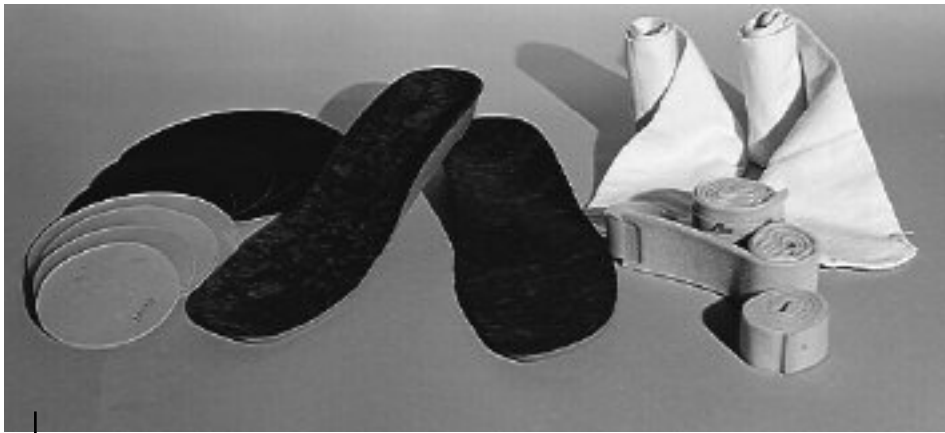
STUMP SHIELD™

Half length model allows unlimited knee motion when the patient is ready for ambulation. Prepares the healing residuum for placement in a permanent socket. Complete with two distal end pads and waist belt.

Suggested L-Code: L5450

† If stump length is greater than 7" a custom Stump Shield should be ordered.

Item Number	Size	Circumference	
		MPT	Distal
PFP-100-S	Small	10 - 12	9 ¹ / ₂ - 11 ¹ / ₂
PFP-200-S	Medium	11 ¹ / ₂ - 13 ¹ / ₂	10 ³ / ₄ - 12 ³ / ₄
PFP-300-S	Large	13 ¹ / ₂ - 15 ¹ / ₂	12 ³ / ₄ - 14 ³ / ₄
PFP-400-S	X-Large	15 - 17	14 ³ / ₄ - 16 ¹ / ₄



AFO ACCESSORIES

AFO Shoe Inserts - anti-shock

The exact height compatible with any model of PLS.

Item Number	Men's Shoe Size
AFO-S-1	3 - 6
AFO-S-2	6 - 9
AFO-S-3	9 - 11
AFO-S-4	11 - 13

AFO Socks

Made of a cotton blend with no seam. Pair

AFO-L-1	Pediatric-one size
AFO-L-2	Adult-one size

Drop Foot Splint Straps

STRAP-PLSC-1/M	Adhesive back strap-fits PLSC & PLS-FF
STRAP-PLSC-S/M	Strap fits PLS-S



MAGIC TAPE™ & MORE

Maramed's Magic Tape™

Our S-Series™ line includes Magic Tape™ straps that contain a hook/loop combination and are self-engaging. Eliminates the need to stitch hook and loop straps together. Available in 25 yd rolls. Beige and navy available as special item. Call for details.

W1	White 1" roll	B1	Black 1" roll
W2	White 2" roll	B2	Black 2" roll

Polyethylene Foam

We use and sell only Volara® brand cross-linked polyethylene foam. This medium density foam can be used as a soft liner that enhances patient comfort through its ability to contour around bony prominences. Sold in linear yards.

PEFP-125-4	Polyethylene foam perforated
	1/8" x 60" per yard
PEFP-250-4	Polyethylene foam perforated
	1/4" x 60" per yard

Hook and Loop Strapping

Our traditional braces incorporate these straps. Available in various widths in both standard and pressure sensitive configurations in 25 yd rolls.

VEH-10W-25YD	White 1" hook roll
VEL-10W-25YD	White 1" loop roll
VEH-10WPS-25YD	White 1" self adhesive hook roll
VEL-10WPS-25YD	White 1" self adhesive loop roll
VEH-20WPS-25YD	White 2" self adhesive hook roll
VEL-20WPS-25YD	White 2" self adhesive loop roll



QUICK LOCK FASTENER SYSTEM

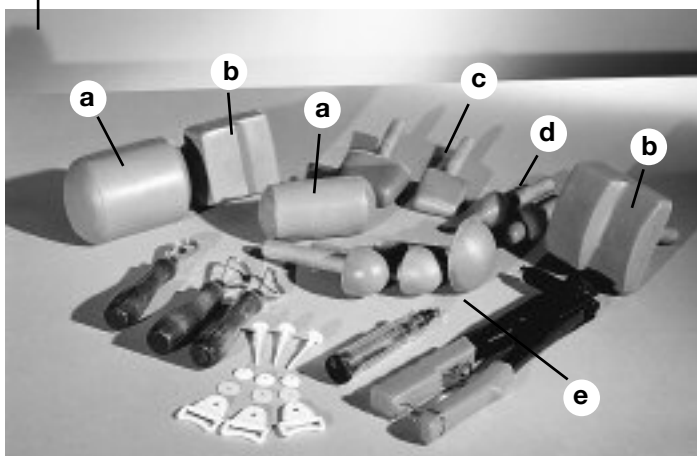
Developed by Maramed to provide practitioners with an easy reliable radiolucent fastening system. This system provides a minimum of 80% more strength in shear and 60% in tensile than the speedy rivet.

Advantages over speedy rivets:

- Can be applied to a device while patient is wearing it
- Does not obstruct radiographs
- Non-Corrosive
- Strong and tough
- Low profile and no sharp edges

Item Number	Description
QLF-WA	Washers-pkg of 50 for QLF4, 6, 8
QLF-2	Small Stem & rivet-pkg of 100
QLF-4	Standard Stem & rivet-pkg of 100
QLF-6	Long Stem & rivet-pkg of 100
QLF-8	Large Stem & rivet-pkg of 100
QLF-IT-1	QLF gun
BUCKLE-1PK	1" loop & chafe-pkg of 100

MODIFICATION TOOLS



Epoxy Adjustment Mandrels

Used in post forming plastic modification. Available in the following shapes:

a - EAM20 (Lg),	EAM21 (Sm)	c - EAM22 (Lg),	EAM23 (Sm)
b - EAM10 (XLg),	EAM11 (Lg)	d - EAM32 (Lg),	EAM33 (Sm)
	EAM12 (Med), EAM13 (Sm)	e - EAM30 (Lg),	EAM31 (Sm)

EAMS-SET Complete set of 12 tools

Plaster Modification Tools

Available in three shapes:

- PLAS-MOD-1 round
- PLAS-MOD-2 flat
- PLAS-MOD-3 half-round

Deburring Tool

For easy removal of rough edges or burrs on metal or plastic. The tool has three blades that are stored in the plastic handle:

DBT-1A

QLF Gun & Fasteners

See details above.

STOCKINETTE

Item Number	Description	Size
STOCKINETT-TGS2	2" Thumb Gard Spika	all
STOCKINETT-TGS2	2" Sport Thumb Spika	all
STOCKINETT-WH	2" Wrist Hand	all
STOCKINETT-WH	2" Wrist Hand Extended	all
STOCKINETT-WH	2" Wrist Hand Holder	all
STOCKINETT-WHT	2" Wrist Hand Thumb	all
STOCKINETT-WHT	2" Wrist Hand Thumb Extended	all
STOCKINETT-WHT	2" Wrist Hand Thumb Finger	all

Fracture Braces

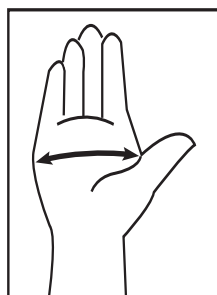
STOCKINETT-C3	3" Colles' Fracture Brace	all
STOCKINETT-F6	6" Femoral Fracture Brace	Md/Lg
STOCKINETT-H3	3" Humerus Fracture Brace	Sm
STOCKINETT-H4	4" Humerus Fracture Brace	Md/Lg/XLg
STOCKINETT-PTB3	3" Tibial FB Proximal Support	Sm
STOCKINETT-PTB4	4" Tibial FB Proximal Support	Md/Lg
STOCKINETT-SG3	3" Humeral FB-OS or SG	Sm
STOCKINETT-SG4	4" Humeral FB-OS or SG	Md/Lg/XLg
STOCKINETT-T3	3" Tibial Fracture Brace	Sm
STOCKINETT-T4	4" Tibial Fracture Brace	Md/Lg
STOCKINETT-U3	3" Ulna Fracture Brace	all

Lower Extremity

STOCKINETT-3-26	3" Ankle Foot Calf	Sm/Md
STOCKINETT-4-26	4" Ankle Foot Calf	Lg/XLg

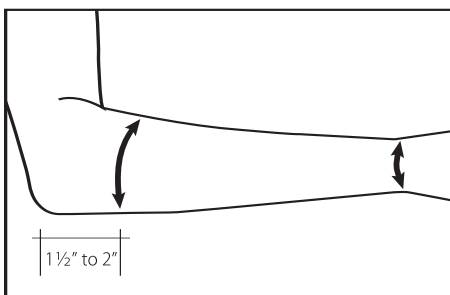
MEASUREMENT INSTRUCTIONS

M-P Diameter



M-P Diameter
Measure the palm of the hand at the widest point.

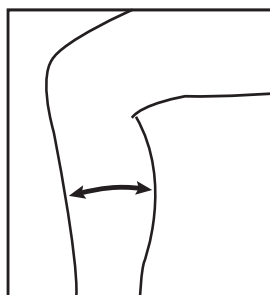
Forearm and Wrist



Forearm
Measure the circumference of the forearm 1 1/2" to 2" below the elbow.

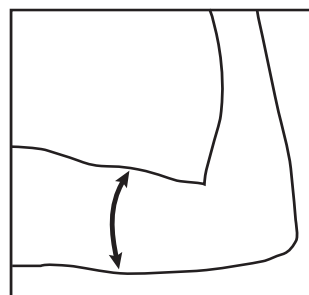
Wrist
Measure the circumference of the wrist at the head of the radius and ulna.

Calf Circumference



Calf
Measure the calf at the widest point.

Bicep Circumference



Bicep
Measure the bicep circumference at the mid-shaft.

Modification Procedures

All products manufactured by Maramed Orthopedic Systems can be modified using the techniques outlined below. Tools and equipment described in this section enable you to modify your Maramed products quickly and effectively.

Trim lines

All products fabricated from polyethylene can be trimmed quite easily with a pair of cast scissors (styrene splints and polypropylene will require sanding and smoothing with a disc sander, rotary sander or equivalent).

Trim Line Modification Steps

1. Fit the patient with the orthosis.
2. Mark the desired trim line.
3. Remove the orthosis then cut along the line drawn.
4. Smooth the edge to eliminate any sharp protrusions. The edge can be smoothed by carefully sanding the surface with sand paper or briefly exposing it to an open flame such as a lighter. Normally, there is no need to smooth the edge where the foam is adhered.

Heating and Relieving

At times patients exhibit large bony prominences, swelling or open sores that may require relief from the pressure a brace may apply. This can be accomplished by heating the brace then altering the shape. Never heat the device while the patient is wearing it. Maramed's plastics are all high temperature plastics and require temperatures between 250° - 375° Fahrenheit before modification can take place.

Required materials

Heat source (Leister gun, heat gun or equivalent)

Water

Suggested tools: Maramed's Epoxy Adjustment Mandrels

1. Mark the area requiring modification.
2. Apply heat source to the marked region. (If the device is foam lined, always heat on the plastic side only. Never apply the heat directly to the foam.)
3. Watch for a change in the plastic. The surface will become shiny, clear and flexible. Once these changes have occurred, the plastic will have reached its forming temperature. (Note: styrene will not become clear due to pigment added to the resin. It will simply exhibit an increased shine and will have a rubbery texture.)
4. Remove heat source from device.
5. Alter the shape of the device as desired. We recommend using Maramed's epoxy adjustment mandrels to apply pressure against the plastic surface to change the shape of the brace as required.
6. Once the desired shape is achieved, place under cool water to "freeze" the plastic in place.
7. Once the plastic is sufficiently cooled, verify proper fit on patient.
8. Repeat the process as needed until the proper shape has been achieved. Be careful not to overheat or overstretch the material, as it will result in deterioration or excess thinning of the material.

If you have any questions concerning the techniques for modifying your Maramed brace or would like to see more specific literature, please call our Customer Service.

